Separation Science e-Learning <noreply@sepscience.com>

Friday, November 02, 2012 1:26 PM

Hanchett, James (DPH)

Subject Today in Separation Science - Latest Issue now Available

From:

Sent:

To:

Web Version Forward Unsubscribe

Separation Science

IN THIS ISSUE

- QuEChERS: A Primer
- Analytical Techniques in Food Safety and Quality
 Rapid Ultra High Performance Liquid Chromatography Method Development Through Proper Column Selection
- Sample Preparation Optimization
- Featured Applications
- Upcoming & On Demand Webinars

| Figlic Add Season dissels and patterns. The September processing in the department of the place from the Season Season

QuEChERS: A Primer

Quick, Easy, Cheap, Effective, Rugged and Safe, the QuEChERS (pronounced "catchers") method is based on work done and published in 2003 by Anastassiades et al. QuEChERS was developed as an extraction method for pesticides in fruits and vegetables, coupled with a cleanup method that removes sugars, lipids, organic acids, sterols, proteins, pigments and excess water. QuEChERS involves two simple steps: first, a homogenized sample is extracted and partitioned using an acetonitrile and salf solution, then, the supernatant is cleaned using a dispersive solid-phase extraction (dSPE) technique. This QuEChERS approach offers a user-friendly alternative to traditional liquid-liquid and solid-phase Click for PDF>>

Analytical Techniques in Food Safety and Quality In this era of globalization in which the food supply knows no boundary, consumers are increasingly interested in the safety, quality and authenticity of everything they purchase. Recent alerts reported in the media regarding food imports from specific countries have put sharp focus on the identification of origin as a first step in ensuring food safety.

Rapid Ultra High Performance Liquid Chromatography

Method Development Through Proper Column Selection
This article describes the importance of selecting an optimal
column stationary phase, by demonstrating changes in selectivity
of various types of samples including synthetic mixtures, forced
degradation reactions and natural produce extracts across
different columns. This work demonstrates how improved separations can be developed in less time by systematically screening different sub 2 µm column chemistries early in the method development process.

Click for PDF>>

Sample Preparation Optimization
The analysis of drugs in biological fluids presents the modern
analytical chemist with many challenges. One of the most
common fluids that is routinely analysed is plasma. This matrix is incredibly complex with thousands of components ranging from very complicated structures such as high molecular weight proteins to simple inorganic salts. Another complication is that each sample will be different as the relative amount of proteins, earn sample will be unlevent as an evaluate amount of proteins, inorganic molecules and small organic molecules will differ dependent on the time of day, the state of the patient, and indeed what food the patient has taken. Additionally, the sample itself will change with time, as proteins denature, and other components of the matrix may also degrade, either due to thermal effects or due to radiation effects. This presents substantial challenges to the analytical chemist as clearly the sample will be changing from one injection to the next. The analytical system itself is also changing! from one injection to the next, which adds further complexity to the analysis as this Click for PDF>>

CARLES DANS CALLES

Dramatically Improve Existing 5 µm and 3 µm Fully Porous Methods with Kinetex 5 µm Core-shell Technology

A Comprehensive Automated Screening Method for Synthetic Cannabinoids in Serum Using the Toxtyper Solution Bruker Click to read>>

Qualitative Analysis of Coconut Water Products using Stir Bar Sorptive Extraction Combined with Thermal Desorption-GC/MS

Agilent 1290 Infinity LC System – Applications requiring the Agilent Ultra-Low Dispersion Kit

×

<u>UPCOMING</u> WEBINARS

Testing: Easy Technologies to Improve Uptime and Productivity Date: 6th November, 2012 Presenters: Jason Link & Mike Chang Click here>>

Why Inertness Matters in Gas Phase Analyses Date: 7th November, 2012 Presenter: Ken Lynam Click here>>

Game-Changing Performance fro Performance from Bruker's EVOQ Liquid Chromatography Triple Quadrupole (LC-TQ) Mass Spectrometers Date: 14th November, nter: Jim Edwards Presenter: Ji Click here>>

Developments in High-throughput Multi-residue Pesticide Analysis using Fast Chromatography Coupled with Mass Spectrometric Detection Date: 20th November, 2012 2012

Presenter: Dr Neil J. Schroeder Click here>>

ON DEMAND WEBINARS

How to get Rugged Results in Pesticide Analysis using Triple Quadrupole GC-MS/MS? Presenter: Dr Katerina Click here>>

PesticideScreener: A Comprehensive Approach to Multi-Target Pesticide Screening Using LC-Time-of-Flight Mass Spectrometry
Presenter: George
McLeod

Using Variations in Solid Core Particle Diameter and Pore Size to Improve UHPLC and HPLC Separations Presenter: Stephen Luke Click here>>

Agilent Technologies
Click to read>>

Molar Mass and Chemical Composition 2D Analysis for Thermoplastic Elastomers
PSS
Click to read>>

Analysis of Pesticides by QuEChERS – Application of ZSep Family of Sorbents for Cleanup
Sigma Aldrich / Supelco
Click to read>>

Determination of Nitrite and Nitrate in Wastewater Using
Capillary IC with UV Detection
Thermo Fisher Scientific
Click to read>>

Separation of clindamycin phosphate and process
impurities
Knauer
Click to read>>

High Speed and Resolution SEC Analysis
of mAbs Using TSKgel SuperSW mAb columns
Tosch
Click to read>>

Analysis of Valsartan
GL Sciences
Click to read>>

Published by Eclipse Business Media Ltd
Frederick House | Princes Court | Bearn Heath Way | Nantwich | Cheshire CW5 6PQ | United Kingdom
20 Maxwell Road (#961-17 Maxwell House) Singapor 089113

Copyright © 2012 Eclipse Business Media Ltd. All rights reserved.

This message was sent from Separation Science e-Learning to james.hanchett@state.ma.us. It was sent from: Eclipse Business Media Ltd, Frederick House, Princes Court, Beam Heath Way, Nantwich, Cheshire CW5 6PQ, United Kingdom. You can modify/update your subscription via the link below.

×

Unsubscribe